

### VISION

"To be a Centre of Excellence in the Engineering to generate quality human contribute constructively to the Technologic **Development of the Nation**"

- M1 To provide Globally competent Mechan **Experienced and Committed Faculty.**
- M2 To nurture graduates with Scientific t thinking and Humanistic approach for Ex
- M3 To promote Excellence in teaching collaborative activities.

### **PROGRAM EDUCATIONAL OBJECTIVES**

- PEO1 Build a successful career or pursue higher education in PO6 Mechanical Engineering and allied fields.
- PEO2 Design, develop, maintain, and improve engineering systems and tools, while working in a team, for sustainable PO7 growth of the economy and continuous improvement in quality of human life.
- PEO3 Engage in continuous learning to keep abreast with the PO8 latest technological developments in light of constantly changing environmental and social factors.

## **PROGRAM SPECIFIC OUTCOMES**

- **PSO1** Apply concepts and principles from Applied Mechanics to **PO10** design, develop, and evaluate mechanical systems for a specified purpose.
- **PSO2** Employ governing laws of Thermodynamics, Fluid flow and Heat Transfer for design and analysis of thermo-fluid PO11 systems.
- PSO3 Utilize the knowledge and learning of materials and manufacturing sciences to design, plan and monitor PO12 production operations in an Industry.

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field of Mechanical n resource who can cal and Socio-economic		and an engineer <b>Problem Analy</b> problems react
nical Engineers through	PO3	sciences, and er Design/ Develo system compon the public healt
temperament, Rational xcelling in their Career. and research through	PO4	<b>Conduct Invest</b> methods includ information to p
		Modern Tool L

pment of Solutions: Design solutions for complex engineering problems and design nents or processes that meet the specified needs with appropriate consideration for th and safety, and the cultural, societal, and environmental considerations. tigations of Complex Problems: Use research-based knowledge and research ling design of experiments, analysis and interpretation of data, and synthesis of the provide valid conclusions. ern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. **Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. Individual and Team Work: Function effectively as an individual, and as a member or leader in **PO9** diverse teams, and in multidisciplinary settings.

**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# **TECHNOLOGY & SCIENCE** IOMOUS) NICAL ENGINEERIN **PROGRAM OUTCOMES**

owledge: Apply the knowledge of mathematics, science, engineering fundamentals, ring specialization to the solution of complex engineering problems. sis: Identify, formulate, research literature, and analyse complex engineering hing substantiated conclusions using first principles of mathematics, natural

ngineering sciences.

